Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Oregon
Water Supply Outlook

and

Federal – State – Private
Cooperative Snow Surveys

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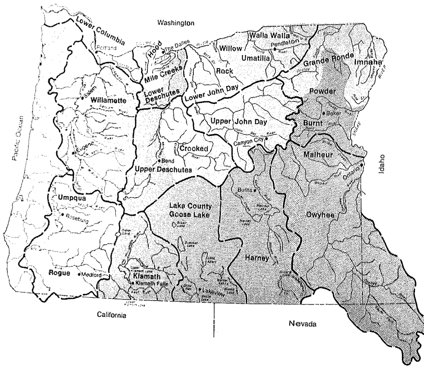
Programs and assistance of the
regard to race, creed, color, sex,

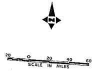
Streamflow Prospects for Oregon

Spring and Summer Period



Streamflow Prospects

▨	Much above average:	(>130%)
☐	Above average:	(110-130%)
▨	Near average:	(90-110%)
☐	Below average:	(70-90%)
▨	Much below average:	(<70%)
☐	Not forecast	



GENERAL OUTLOOK

SUMMARY:

WATER SUPPLIES WILL RANGE FROM BELOW NORMAL TO NEAR NORMAL THIS SUMMER. IRRIGATORS WITH ACCESS TO STORED WATER SUPPLIES WILL HAVE AMPLE AMOUNTS AGAIN THIS YEAR. THE MOUNTAIN SNOWPACK IS MUCH BELOW AVERAGE OVER MOST OF THE STATE. PRECIPITATION DURING APRIL WAS BELOW AVERAGE. RESERVOIR STORAGE IS EXCELLENT.

SNOWPACK:

Most of the low elevation snow is gone and the high elevation snow is below average. It is about 1/2 normal in the Mt. Hood area, Willamette River drainage, John Day watershed, and in northeastern Oregon. The Deschutes drainage has a snowpack that is 73% of normal. Harney and Malheur Counties have the highest snowpack (98% and 83% respectively). The snowpack is essentially gone from the rest of the state.

PRECIPITATION:

April precipitation was below average west of the Cascades and much below average east of the mountains. The exception to this is Malheur County where it was 98% of average. Precipitation for the water year to date is near average for all of Oregon except in Lake, Harney, and Malheur Counties where it has been above average.

RESERVOIRS:

Reservoir storage is excellent again this year. Currently, 29 principal irrigation reservoirs contain 3,099,500 acre feet of stored water. This is 94% of total usable capacity and 116% of average for this time of year.

STREAMFLOW:

April streamflow was below normal on the west side of the Cascades and near normal in eastern Oregon. The Owyhee Reservoir inflow was the exception with 141% of normal flow during April.

Prospective streamflow as percent of average on representative Oregon streams is as follows:

STREAM	PERIOD	% OF AVERAGE
OWYHEE NET INFLOW	MAY-SEP	97%
GRANDE RONDE AT LAGRANDE	MAY-SEP	88%
UMATILLA AT PENDLETON	MAY-SEP	78%
DESCHUTES AT BENHAM FALLS	MAY-SEP	92%
WILLAMETTE MF NR OAKRIDGE	MAY-SEP	94%
ROGUE AT RAYGOLD	MAY-SEP	82%
UPP. KLAMATH LK NET INFLOW	MAY-SEP	95%
SILVIES NEAR BURNS	MAY-SEP	94%

Malheur Lake in Harney County has surpassed last year's record high peak. The lake remained near 4102.5 in April and peaked near the end of April at 4102.55 feet. The July 1 forecast is for an elevation of 4101.70 feet and a surface area of 118,600 acres.

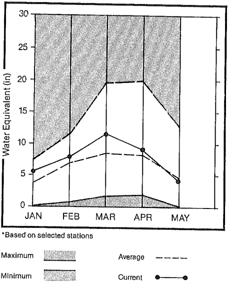
These forecasts assume normal weather conditions will occur throughout the forecast period.

The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users.

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA, National Weather Service and other cooperators.

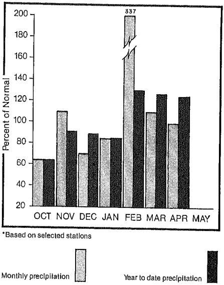
Owyhee and Malheur Basins

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Summer streamflow should be near normal in Malheur County. The May 1 snowpack is 83% of average. Precipitation during April was 98% of normal and for the water year to date it has been 125%. Reservoir storage in the County is excellent with all major reservoirs close to being filled.

For more information contact your local Soil Conservation Service office.

OWYHEE AND MALHEUR BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BULLY CREEK at Warmsprings	MAR-MAY	14.4	13.2	91	132	56				
MALHEUR near Drewsey	MAY-JUL	32.6	31.0	95	138	52				
	MAY-SEP	34.3	32.0	93	137	50				
MALHEUR, NORTH FORK at Beulah	MAY-JUL	35.4	34.0	96	147	45				
	MAY-SEP	40.9	39.3	96	142	51				
OWYHEE RESERVOIR net Inflow	MAY-JUL	186.7	181.0	96	137	57				
	MAY-SEP	213.6	207.2	97	137	57				
OWYHEE at Rome	MAY-JUL	189.7	184.0	98	142	52				
SUCCOR CREEK nr Jordan Valley	MAY-JUL	5.1	4.8	94	137	59				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BEULAH RES	60.0	59.4	59.1	50.3
BULLY CREEK	30.0	29.2	29.9	25.8
OWYHEE	715.0	713.9	709.9	610.4
WARMSPRINGS	191.0	179.5	100.9	142.5

WATERSHED SNOWPACK ANALYSIS

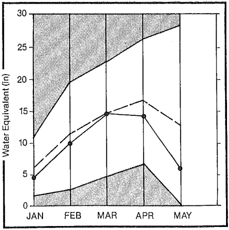
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Owyhee River	5	84	75
Malheur	2	0	0
Jordan Creek	1	0	91
Bully Creek	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

See Pages 30-31 for Forecast Date of Low Flow Values.

Burnt, Powder, Grande Ronde, and Imnaha Basins

Mountain snowpack* (inches)

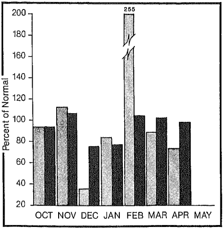


*Based on selected stations

Maximum ▨ Average – – – –

Minimum ▨ Current ●——●

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation ▯ Year to date precipitation ▮

WATER SUPPLY OUTLOOK:

Water supplies in northeastern Oregon are forecast to be near normal this summer. Streamflows should range from 87% to 100% of normal. The snowpack is only 1/2 of the May 1 average, with most of the low elevation snow now being gone. April precipitation was 72% of normal. For the October-April period, it has been 98% of normal. All irrigation reservoirs in the area are currently full or will be full this year.

For more information contact your local Soil Conservation Service office.

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
ANTHONY CREEK blw NF nr Powder	MAY-JUL	13.5	12.8	95	126	67				
BEAR CREEK near Wallowa	MAY-SEP	57.8	54.9	94	112	76				
BIG CREEK blw Burn Ck	MAY-JUL	6.4	5.9	92	125	63				
BURNT near Hereford	MAY-JUL	15.4	14.6	95	162	32				
	MAY-SEP	16.9	16.3	96	154	41				
CATHERINE CK near Union	MAY-SEP	52.9	49.2	93	112	76				
DEER CK near Sumpter	MAY-JUL	11.2	10.7	95	134	63				
EAGLE CK above Skull Ck	MAY-JUL	146.7	139.3	95	115	75				
	MAY-SEP	161.9	153.8	95	115	75				
GRANDE RONDE at La Grande	MAY-JUL	94.7	83.3	87	122	53				
	MAY-SEP	98.9	87.1	88	123	53				
HURRICANE CK near Joseph	MAY-SEP	43.6	39.2	90	110	71				
IMNAHA at Imnaha	MAY-SEP	248.6	219.0	88	117	59				
LOSTINE near Lostine	MAY-SEP	115.6	100.5	86	104	70				
PINE CREEK near Oxbow	MAY-JUL	143.5	127.2	88	118	59				
POWDER near Sumpter	MAY-JUL	41.0	38.9	95	124	66				
	MAY-SEP	42.2	40.1	95	126	64				
EAST FORK WALLOWA near Joseph	MAY-JUL	8.1	7.9	98	111	86				
	MAY-SEP	10.4	10.4	100	115	87				
WALLOWA at Joseph	MAY-JUL	66.9	65.5	97	143	52				
WOLF CK RESERVOIR net Inflow	MAY-JUN	8.5	8.3	98	153	47				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	* USEABLE STORAGE * THIS YEAR	LAST YEAR	AVE.
PHILLIPS LAKE	73.5	73.7	74.7	59.7
THIEF VALLEY	17.4	17.9	---	16.5
UNITY	25.2	25.3	24.5	24.1
WALLOWA LAKE	37.5	28.3	19.8	25.4
WOLF CREEK	10.4	11.1	9.8	---

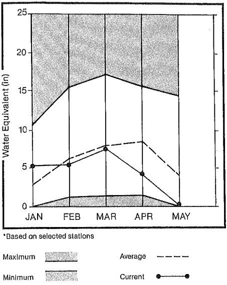
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Grande Ronde ab LaGrande	1	0	0
Powder River	1	107	126
Wallowa,Imnaha,Catherine	5	95	86
Burnt River	1	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.
See Pages 30-31 for Forecast Date of Low Flow Values.

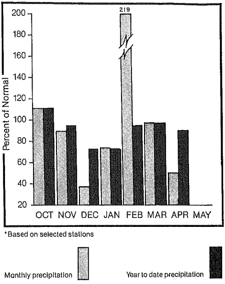
Umatilla, Walla Walla, Willow, Rock, and Lower John Day Basins

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Streamflow is forecast to be below normal this summer. The forecast ranges from 75% to 88% of normal. Most of the snow is gone. April precipitation was only 1/2 of average. For the water year to date, the precipitation has been one of the lowest in Oregon at 91% of average. McKay Reservoir is storing an adequate amount of water while Cold Springs is only storing 82% of normal amounts of water for this time of year.

For more information contact your local Soil Conservation Service office.

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BUTTER CK NEAR PINE CITY	MAY-JUL	3.7	2.7	74	135	27				
COUSE CK nr Milton Freewater	MAY-JUL	1.6	1.3	86	125	62				
MCKAY near Pilot Rock	MAY-SEP	8.3	6.6	79	157	24				
PINE CREEK near Weston	MAY-JUL	0.8	0.6	75	125	125				
RHEA CREEK near Heppner	MAY-JUL	2.2	1.7	80	91	45				
ROCK CREEK above Cayuse Canyon	MAY-JUL	2.4	2.1	87	125	42				
UMATILLA near Gibbon	MAY-JUL	41.3	31.0	75	109	41				
	MAY-SEP	47.6	36.0	75	103	48				
UMATILLA near Pendleton	MAY-JUL	71.5	55.0	76	117	36				
	MAY-SEP	76.9	60.0	78	120	36				
SF WALLA WALLA nr MiltonFreewater	MAY-JUL	38.6	28.9	74	96	54				
	MAY-SEP	52.6	40.5	76	97	57				
WILLOW CREEK near Heppner	MAY-JUL	3.2	2.6	81	125	63				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
COLD SPRINGS	50.0	39.3	40.5	48.2
MCKAY	73.8	68.1	68.9	57.0
WILLOW CREEK	1.8	1.9	---	---

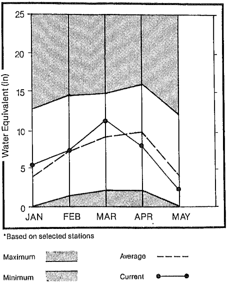
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Walla Walla River	0	0	0
Umatilla River	0	0	0
McKay Creek	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.
See Pages 30-31 for Forecast Date of Low Flow Values.

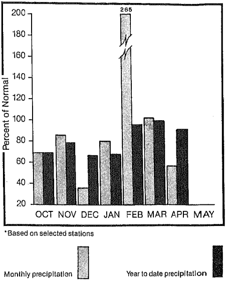
Upper John Day Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

UPPER JOHN DAY BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
CANAS CREEK nr Ukiah	MAY-JUL	16.7	14.3	85	138	36				
	MAY-SEP	17.3	14.8	86	139	35				
MF JOHN DAY at Ritter	MAY-JUL	70.1	60.2	86	124	49				
	MAY-SEP	73.9	64.0	86	123	50				
MF JOHN DAY at Monument	MAY-JUL	349.6	297.0	84	108	62				
	MAY-SEP	365.2	305.0	83	107	61				
MOUNTAIN CREEK near Mitchell	MAY-JUL	2.1	1.7	85	143	48				
STRAWBERRY CREEK nr Prairie City	MAY-JUL	6.7	5.9	88	119	60				
	MAY-SEP	7.4	6.5	87	108	68				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.

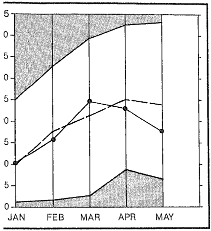
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
John Day, North Fork	0	0	0
John Day above Dayville	1	238	67

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.
See Pages 30-31 for Forecast Date of Low Flow Values.

Upper Deschutes and Crooked Basins

ntain snowpack* (inches)



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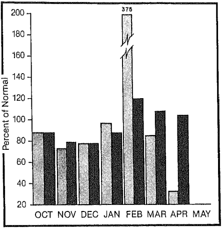
Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation ▨

Year to date precipitation ■

TER SUPPLY TLOOK:

Streamflow in the Crooked River is forecast to be 85% of normal. In the Deschutes River system the forecast ranges from 90% to 95% of normal. The May 1 snowpack is 73% of normal. Precipitation during April was the lowest in Oregon with only 31% of normal amounts being received. For the water year, however, it has been 104%. Reservoir storage is excellent with most reservoirs being nearly full.

For more information contact your local Soil Conservation Service office.

UPPER DESCHUTES AND CROOKED BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAVER CREEK nr Paulina	MAY-JUL	4.8	4.4	92	125	63				
	MAY-SEP	4.9	4.5	92	122	61				
CRANE PRAIRIE RES net Inflow	MAY-JUL	60.3	57.2	95	119	71				
	MAY-SEP	100.1	95.1	95	119	71				
CRESCENT CK nr Crescent Lake	MAY-JUL	13.8	12.7	92	167	58				
	MAY-SEP	17.5	16.1	92	131	51				
CROOKED nr Prineville	MAY-JUL	35.1	29.8	84	154	37				
	MAY-SEP	35.5	31.2	87	155	37				
NF CROOKED blw Lookout Ck	MAY-JUL	4.2	3.5	85	119	48				
DESCHUTES below Bend	AUG-SEP	174.0	157.9	90	116	66				
DESCHUTES at Benham Falls	MAY-JUL	277.3	255.1	92	109	75				
	MAY-SEP	464.2	427.0	91	100	76				
DESCHUTES below Snow Creek	MAY-SEP	53.3	46.9	88	113	69				
LITTLE DESCHUTES nr Lapine	MAY-JUL	50.7	45.6	90	108	71				
	MAY-SEP	60.1	55.2	91	115	68				
OCHOCO RESERVOIR net Inflow	MAY-JUL	8.8	7.7	87	182	45				
	MAY-SEP	8.9	7.8	87	100	45				
SQUAW CREEK nr Sisters	MAY-SEP	43.7	41.5	95	112	78				
TUMALO CREEK near Bend	MAY-SEP	39.6	36.4	91	106	78				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CRANE PRAIRIE	55.3	52.6	54.4	44.0
CRESCENT LAKE	86.9	80.6	85.8	55.9
OCHOCO	47.5	45.8	44.1	32.3
PRINEVILLE	153.0	153.3	156.4	145.8
WICKIUP	200.0	192.2	196.3	190.4

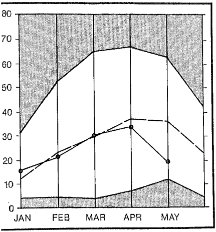
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Crooked, Ochoco	0	0	0
Deschutes above Wickiup	1	71	72
Little Deschutes	1	0	0
Tumalo and Squaw Creeks	3	72	64

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.
See Pages 30-31 For Forecast Date of Low Flow Values.

Hood, Mile Creeks, and Lower Deschutes Basins

untain snowpack* (inches)



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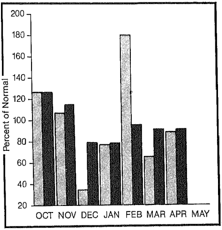
Average ----

Current ●——●

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation ▯

Year to date precipitation ▮

ATER SUPPLY
UTLOOK:

Adequate water supplies will be available this summer in the Mt. Hood area. Streamflows are forecast to be 88% of normal. Reservoir storage is very good with Clear Lake currently containing 175% of average water supplies. The snowpack is 56% of normal. Precipitation for the water year has been 91% of average. During April, the area received 88% of normal amounts of rainfall.

For more information contact your local Soil Conservation Service office.

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
HOOD RIVER near Tucker Bridge	MAY-JUL	162.7	143.1	88	104	72				
	MAY-SEP	209.8	182.5	87	101	73				
WEST FORK HOOD RIVER nr Dee	MAY-JUL	83.1	73.1	88	103	72				
	MAY-SEP	104.5	91.9	88	103	73				
WHITE RIVER below Tygh Valley	MAY-JUL	77.1	67.0	87	105	69				
	MAY-SEP	92.2	80.2	87	107	67				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CLEAR LAKE (WASCO)	11.9	9.6	8.5	5.5

WATERSHED SNOWPACK ANALYSIS

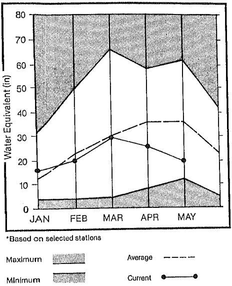
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Hood River	2	62	84
Mile Creeks	0	0	0
White River	2	62	84

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

See Pages 30-31 for Forecast Date of Low Flow Values.

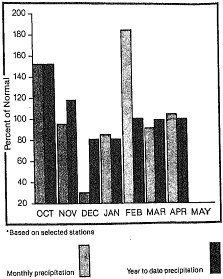
Lower Columbia Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Streamflows are forecast to be below summer. The Columbia River at The Da May-September will be 88% of average. pack in the Columbia basin above The normal. April precipitation was 105% the water year to date, it has been r

For more information contact your local Soi Conservation Service office.

LOWER COLUMBIA BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
COLUMBIA at The Dalles	MAY-JUL	73760.0	62800.0	85	98	72				
	MAY-SEP	88292.0	77800.0	88	101	75				
SANDY RIVER near Marmot	MAY-JUL	221.9	179.7	81	100	62				
	MAY-SEP	275.7	229.6	83	101	65				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.

WATERSHED SNOWPACK ANALYSIS

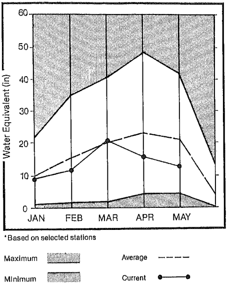
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Sandy River	2	62	84

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

See Page 29 for Historical Data and Flood Stages.

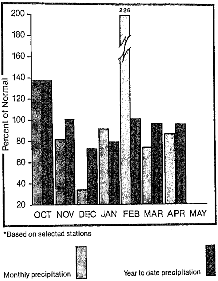
Willamette Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

The Willamette Valley should have near normal wate supplies this summer. Streamflows are forecast to range from 88% to 98% of normal. The Cascade snowpack is 59% of average. Precipitation during April was 87% of average while for the October-Apr period it has been 97% of average.

For more information contact your local Soil Conservation Service office.

WILLAMETTE BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
CLACKAMAS at Estacada	MAY-JUL	443.2	398.8	89	105	75				
	MAY-SEP	554.8	510.4	92	107	77				
CLACKAMAS above Three Lynx	MAY-JUL	341.0	306.9	89	102	78				
	MAY-SEP	433.4	398.7	92	103	81				
MCKENZIE at McKenzie Bridge	MAY-JUL	323.3	294.2	90	102	80				
	MAY-SEP	466.7	424.7	91	102	80				
MCKENZIE near Vida	MAY-JUL	696.9	627.2	90	103	77				
	MAY-SEP	925.5	832.9	90	103	77				
SF MCKENZIE at Rainbow	MAY-JUL	136.8	123.1	90	105	75				
	MAY-SEP	163.7	147.2	90	107	73				
MOHAWK near Springfield	MAY-JUL	32.6	30.0	92	123	61				
OAK GROVE FORK ab Power Intake	MAY-JUL	94.4	83.0	87	114	61				
	MAY-SEP	131.0	115.3	88	108	68				
ROW near Dorena	MAY-JUL	51.5	45.3	88	134	43				
	MAY-SEP	57.3	50.4	87	134	42				
NORTH SANTIAM at Mehama	MAY-JUL	478.5	430.4	89	120	60				
	MAY-SEP	585.6	527.0	89	105	75				
SOUTH SANTIAM at Waterloo	MAY-JUL	306.7	273.6	89	121	57				
	MAY-SEP	349.9	311.4	88	120	58				
SCOGGINS CREEK near Gaston	MAY-JUL	5.7	5.0	87	123	53				
THOMAS CREEK nr Scio	MAY-JUL	38.2	35.1	91	123	63				
COAST FORK WILLAMETTE nr London	MAY-JUL	14.0	12.8	92	129	57				
MF OF WILLAMETTE bl NF nr Oakridge	MAY-JUL	451.0	419.0	92	108	78				
	MAY-SEP	546.9	514.0	93	109	79				
NF OF MF OF WILLAMETTE nr Oakridge	MAY-JUL	118.1	107.5	91	109	73				
	MAY-SEP	139.7	128.5	91	110	74				
WILLAMETTE at Salem	MAY-JUL	2490.4	2390.0	95	112	80				
	MAY-SEP	2973.8	2914.9	98	116	80				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BLUE RIVER **	85.5	71.4	71.3	73.1
COTTAGE GROVE **	29.8	21.4	22.9	23.5
COUGAR **	155.2	129.0	124.0	103.1
DETROIT **	300.7	254.5	263.3	236.2
DORENA **	70.5	56.2	51.5	55.7
FALL CREEK **	115.5	100.0	97.2	94.3
FERN RIDGE **	109.6	76.5	89.0	85.4
FOSTER **	29.7	23.9	1.2	14.9
GREEN PETER **	268.2	218.2	228.6	208.8
HILLS CREEK **	200.2	179.6	172.9	149.8
LOOKOUT POINT **	337.0	268.3	267.7	233.3
TIMOTHY LAKE	61.7	55.8	59.6	55.2
HENRY HAGG LAKE	53.0	53.3	53.6	50.1

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Clackamas River	1	50	77
McKenzie River	0	0	0
Row River	0	0	0
Santiam River	2	77	87
Willamette, Middle Fork	0	0	0

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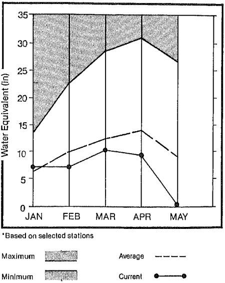
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

**Multiple Purpose Reservoir...Space Reserved Primarily For Flood Control.

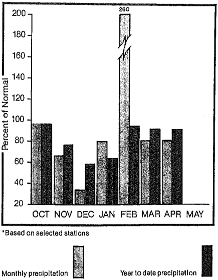
Rogue and Umpqua Basins

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Water supplies were forecast to be below normal this summer. Irrigators with stored water supplies will have an adequate amount available. Most reservoirs are currently storing above average amounts of water for this time of year. The only snow remaining is above 6000' elevation. April precipitation was 81% of average. For the water year to date, the precipitation amounts have been one of the lowest in Oregon with 91% of average being received.

For more information contact your local Soil Conservation Service office.

ROGUE AND UMPQUA BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
APPLEGATE nr Copper	MAY-JUL	75.6	57.8	76	106	46				
	MAY-SEP	82.4	64.2	77	108	49				
SF BIG BUTTE CK near Butte Falls	MAY-JUL	22.1	19.4	88	118	59				
CLEARWATER above Trap Creek	MAY-SEP	56.8	51.5	90	99	83				
COW CREEK near Azalea	MAY-JUL	8.2	7.2	87	110	61				
FOURMILE LAKE net Inflow	MAY-SEP	3.3	2.9	88	148	59				
GRAVE CREEK at Pease Bridge	MAY-JUL	3.2	2.7	85	125	63				
HYATT PRAIRIE RES net Inflow	MAY-JUL	2.5	2.1	85	120	40				
ILLINOIS near Kerby	MAY-JUL	85.2	69.8	81	122	42				
	MAY-SEP	92.3	76.6	82	121	46				
NF LITTLE BUTTE CK nr Lakecreek	MAY-JUL	7.1	6.0	84	141	42				
	MAY-SEP	11.3	9.6	84	142	44				
RED BLANKET CK nr Prospect	MAY-JUL	25.9	21.7	84	116	54				
ROGUE RIVER ab Prospect	MAY-JUL	178.1	142.5	80	96	64				
	MAY-SEP	232.6	186.0	79	95	65				
SF ROGUE near Prospect	MAY-JUL	45.5	35.5	78	101	55				
	MAY-SEP	55.6	43.3	78	101	56				
ROGUE RIVER at Raygold	MAY-JUL	483.9	387.0	79	101	59				
	MAY-SEP	642.1	526.5	81	101	63				
ROGUE RIVER at Grants Pass	MAY-JUL	490.9	399.0	79	103	57				
	MAY-SEP	616.7	493.0	79	103	57				
SUCKER CREEK bl Little Grayback	MAY-JUL	34.7	27.7	80	110	49				
NORTH UMPQUA nr Tokatee Falls	MAY-SEP	137.7	112.9	81	95	69				
NORTH UMPQUA at Winchester	MAY-JUL	469.5	380.3	81	106	56				
SOUTH UMPQUA at Brockway	MAY-JUL	180.5	146.2	80	106	56				
SOUTH UMPQUA near Tiller	MAY-JUL	100.0	81.0	81	101	61				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
APPLEGATE	75.2	67.5	60.3	---
EMIGRANT LAKE	39.0	38.6	38.8	37.1
FISH LAKE	8.0	7.4	6.0	6.1
FOURMILE LAKE	16.1	13.5	14.6	10.5
HOWARD PRAIRIE	60.0	60.6	60.6	50.5
HYATT PRAIRIE	16.1	16.2	15.8	14.1
LOST CREEK **	315.0	311.3	153.0	---

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Applegate River	3	75	67
Bear Creek	4	68	58
Butte Creek	3	22	20
Illinois River	0	0	0
North Umpqua River	8	1	1
Rogue River	16	85	77
Mt. Ashland	3	75	67

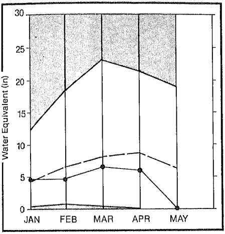
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

See Pages 30-31 for Forecast Date of Low Flow Values.

**Multiple Purpose Reservoir...Space Reserved Primarily For Flood Control.

Klamath Basin

Mountain snowpack* (inches)



*Based on selected stations

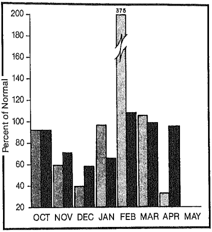
Maximum ▨

Minimum ▨

Average — — —

Current ●——●

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation ▨

Year to date precipitation ■

WATER SUPPLY OUTLOOK:

Klamath County should have near normal water supplies this summer. Streamflows are forecast to range from 89% to 95% of normal. The only snow remaining is at the higher elevations. April precipitation was one of the lowest in the state with 32% of normal amounts being received. For the October-April period, the county has received 96% of normal precipitation. Reservoir storage in the county is near to above average for May 1.

For more information contact your local Soil Conservation Service office.

KLAMATH BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
CLEAR LAKE net Inflow	MAY-JUL	15.5	13.9	89	161	39				
	MAY-SEP	18.0	16.5	91	161	39				
GERBER RESERVOIR net Inflow	MAY-JUL	4.3	3.9	90	163	47				
	MAY-SEP	4.7	4.3	91	149	43				
SPRAGUE near Chiloquin	MAY-SEP	155.9	141.6	90	113	69				
UPPER KLAMATH LAKE net Inflow	MAY-SEP	331.0	314.4	94	115	75				
WILLIAMSON near Chiloquin	MAY-SEP	269.4	247.8	92	113	71				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CLEAR LAKE (CALIF)	513.3	419.5	401.1	264.3
GERBER	94.3	92.5	94.6	69.7
UPPER KLAMATH LAKE	523.7	483.8	496.6	505.4

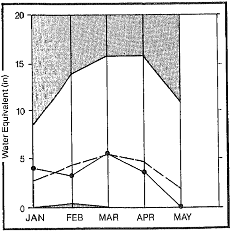
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Lost River	0	0	0
Sprague River	2	0	0
Upper Klamath Lake	6	91	88
Williamson River	3	100	103

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

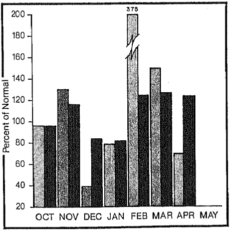
Lake County and Goose Lake Basins

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Lake County should have near normal water supplies this summer. Streamflows should range from 88% to 98% of average. Most of the Oregon snow is gone, while California still has some remaining in the mountains. April precipitation was only 69% of average but for the water year to date the county has received 125% of normal amounts. This is one of the highest in the state. Reservoir storage is excellent.

For more information contact your local Soil Conservation Service office.

LAKE COUNTY AND GOOSE LAKE BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BRIDGE CREEK at Spahr Ranch	MAY-JUL	3.0	2.9	98	133	33				
CHEWAUCAN near Paisley	MAY-JUL	53.2	50.5	95	137	53				
	MAY-SEP	57.1	54.2	95	133	58				
COTTONWOOD CK near Lakeview	MAY-JUL	6.0	5.7	95	150	50				
DEEP CREEK near Adel	MAY-JUL	42.8	40.2	93	143	47				
	MAY-SEP	44.7	42.0	93	141	47				
DREWS RESERVOIR net Inflow	MAY-JUL	9.4	8.2	87	138	43				
HONEY CREEK near Plush	MAY-JUL	11.1	10.4	93	171	36				
	MAY-SEP	11.3	10.6	93	168	44				
SILVER CREEK near Silver Lake	MAY-JUL	8.1	7.1	88	148	25				
TWENTYMILE near Adel	MAY-JUL	10.3	9.6	93	184	29				
	MAY-SEP	10.8	10.1	93	185	37				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
COTTONWOOD	8.7	8.7	7.0	6.2
DREWS	63.0	62.5	62.5	55.5
THOMPSON VALLEY	16.4	10.4	18.0	15.9

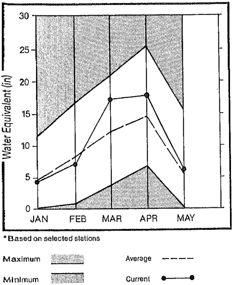
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Chewaucan River	1	0	0
Deep Creek	2	0	0
Drew Creek	1	117	45
Honey Creek	2	0	0
Silver Creek (Lake Co.)	0	0	0
Twentymile Creek	2	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.
See Pages 30-31 for Forecast Date of Low Flow Values.

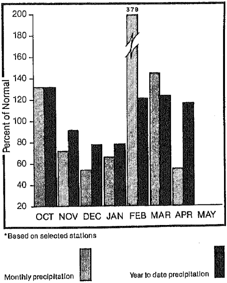
Harney Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Harney County will have near normal amounts of water this summer. Streamflows are forecast to range from 90% to 94% of normal. The snowpack, at 98% of average, is the highest in the state. April precipitation was 55% of normal. For the October thru April period, it has been 116% of normal. Malheur Lake peaked during the end of April at an elevation of 4102.55 feet. It is forecast to be at 4101.70 feet on July 1.

For more information contact your local Soil Conservation Service office.

HARNEY BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DONNER UND BLITZEN nr Frenchglen	MAY-JUL	42.0	37.8	90	119	60				
	MAY-SEP	47.1	42.3	89	121	59				
SILVER CREEK near Riley	MAY-JUL	5.6	5.2	92	179	54				
SILVIES near Burns	MAY-JUL	36.9	34.6	93	157	30				
	MAY-SEP	38.8	36.4	93	160	26				
TROUT CREEK nr Denio	MAY-JUL	5.9	5.4	91	169	51				
	MAY-SEP	6.9	6.3	91	159	43				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Donner und Blitzen River	1	0	9
Silver Creek (Harney Co)	0	0	0
Silvies River	1	0	0
Trout Creek	1	0	4

MALHEUR LAKE ELEVATION FORECAST:

		Gage Height	Surface Acres	Avg. Surface Acres
Malheur Lake at Break in Cole Island Dike nr Voltage	Jul 1	4101.70	118,600	40,000
	Aug 1	4101.20	114,600	33,000

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.
See Pages 30-31 for Forecast Date of Low Flow Values.

HISTORICAL DATA (COLUMBIA RIVER AT THE DALLES)

Year	STREAMFLOW (1,000 AF)			REGULATED PEAK	DATE
	APR-SEP	APR-JUN	MAY-JUN	(1,000cfs)	
1961	101,940	76,860	66,185	699	JUN 8
1962	95,260	66,516	50,819	460	JUN 5
1963	87,860	58,499	47,812	437	JUN 18
1964	110,422	73,512	63,670	662	JUN 18
1965	114,222	80,098	62,467	520	JUN 9
1966	87,386	58,250	45,962	396	JUN 12
1967	109,319	74,378	66,452	622	JUN 10
1968	89,102	55,593	47,994	404	JUN 13
1969	112,377	85,742	63,899	515	MAY 15
1970	88,243	62,993	55,227	425	MAY 28
1971	126,898	91,781	76,453	557	MAY 13
1972	135,500	97,041	81,451	619	JUN 20
1973	65,549	43,765	36,565	221	DEC 5
1974	139,501	99,035	78,946	588	JUN 20
1975	108,906	73,018	62,861	422	MAY 17
1976	122,771	79,084	62,554	418	MAY 14
1977	54,108	35,505	28,394	213	JAN 25
1978	100,968	67,287	52,035	313	JUN 10
1979	76,700	54,900	44,984	311	MAY 25
1980	91,631	68,229	53,704	345	JUN 18
1961-80 AVG	100,933	70,104	57,422	457	

LOWER COLUMBIA RIVER FLOOD STAGES (WITH 9.5' TIDE AT ASTORIA)

VANCOUVER GAGE (NWS)	FLOW AT THE DALLES (1,000 cfs)	SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

Forecast Date of Low Flow Values

	Forecast Point	Low Flow Value Second/Ft	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
OWYHEE AND MALHEUR BASINS	Owyhee nr Rome	2000	May 12	May 14
		1000	May 26	May 28
		500	Jun 9	Jun 11
BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS	Eagle Ck above Skull Ck	225	Jul 21	Jul 25
		160	Aug 1	Aug 5
	Catherine Ck near Union	47	Aug 1	Avg Value 49
		100	Jul 5	Jul 9
		50	Jul 24	Jul 28
	Powder near Sumpter	100	Jun 23	Jun 25
		20	Jul 20	Jul 22
	Deer Ck ab Phillips Resv nr Sumpter	40	Jun 15	Jun 17
		10	Jul 4	Jul 6
UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS	Umatilla at Pendleton	550	May 10	May 17
	SF Walla Walla nr Milton	200	Jun 1	Jun 9
		85	Aug-Sep Min Flow	Avg Value 105
UPPER JOHN DAY BASIN	John Day at Service Ck	190	Aug 1	Avg Value 212
UPPER DESCHUTES AND CROOKED BASINS	Crane Prairie Net Inflow	470	Peak	
		278	Oct 31	
	Crooked R nr Post	Peak	Jun 3	
		100	May 26	Jun 1
	Deschutes blw Bend	1500	Jun 10	Jul 1
	Little Deschutes nr LaPine	400	Jun 4	Jun 7
		200	Jul 5	Jul 8
	Squaw Ck nr Sisters	100	Aug 12	Aug 16
	Tumalo Ck nr Bend	235	Jun 19	Jun 23
		207	Jun 21	Jun 25
		150	Jul 1	Jul 5
		71	Aug 3	Aug 7

Forecast Date of Low Flow Values

	Forecast Point	Low Flow Value Second/Ft	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS	Clear Branch Inflow	* 35	Jul 15-31	**39
	White bl Tygh Valley	200	Jun 30	Jul 3
		140	Aug 1	Avg Value 145
ROGUE AND UMPQUA BASINS	Cow Ck nr Azalea	20	Jul 1	Jul 4
		10	Aug 15	Aug 19
	Little Butte Ck SF	100	May 9	May 15
	South Umpqua nr Brockway	90	Jul 23	Jul 30
	South Umpqua at Tiller	140	Jul 4	Jul 10
		90	Jul 24	Jul 30
		60	Aug 21	Aug 27
LAKE COUNTY AND GOOSE LAKE BASINS	Deep Ck above Adel	100	Jun 17	Jun 21
	Honey Ck near Plush	100	May 11	May 15
		50	May 26	May 30
	Twentymile near Adel	50	May 30	Jun 2
		10	Jun 29	Jul 3
ARNEY BASIN	Silvies near Burns	400	May 1	May 5
		200	May 17	May 21
		100	Jun 5	Jun 9
		50	Jun 19	Jun 23
	Donner und Blitzen	200	Jun 11	Jun 15
		100	Jul 1	Jul 5

* Average cfs forecast to flow for this two-week period.

** Average cfs for period of record.

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State

- Oregon Department of Water Resources
- Oregon State University
- Soil and Water Conservation Districts of Oregon

Federal

- U.S. Department of Agriculture
  - Extension Service
  - Forest Service
- U.S. Department of Army
  - Corps of Engineers
- U.S. Department of Commerce
  - NOAA, National Weather Service
- U.S. Department of Energy
  - Bonneville Power Administration
- U.S. Department of the Interior
  - Bureau of Land Management
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey

Local

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- City of Baker
- City of La Grande
- City of Portland
- City of The Dalles
- City of Walla Walla
- Douglas County Water Resources Survey
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control – Owyhee Project
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control – Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale – Oregon Irrigation District
- Warmsprings Irrigation District

Private

- Pacific Power and Light Company
- Portland General Electric Company
- The Crag Rats, Hood River, Oregon

Other organizations and individuals furnish information for the snow surv reports. Their cooperation is gratefully acknowledged.